PATENT COOPE	RATION TREATY			
From the INTERNATIONAL SEARCHING AUTHORITY	REGID 0 4 MAY 2005			
To: ASTRAZENECA	PCT FOI			
Global Intellectual Property 151 85 Södertälje Sweden	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
	(PCT Rule 43 <i>bis</i> .1)			
	Date of mailing (day/month/year) 0 2 -05- 2005			
Applicant's or agent's file reference 101258-1 WO	FOR FURTHER ACTION See paragraph 2 below			
International application No. International filing data PCT/SE 2005/000013 US.01.2005	Priority date (day/month/year) 09.01.2004			
International Patent Classification (IPC) or both national classif CO7D 211/70, A61K 31/445, A61P 2				
Applicant AstraZeneca AB et al				
1. This opinion contains indications relating to the following it	tems;			
Box No. I Basis of the opinion				
Box No. II Priority				
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.	162Vi) with record to popular importing stor or industrial			
applicability; citations and explanation	.1(a)(i) with regard to novelty, inventive step or industrial as supporting such statement			
Box No. VI Certain documents cited Box No. VII Certain defects in the international app	alication			
Box No. VIII Certain observations on the internation				
2. FURTHER ACTION	de this suities will be execidented to be a mitten animing of the			
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered.				
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailin of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.				
For further opinions, see Form PCT/ISA/220.				
3. For further details, see notes to Form PCT/ISA/220.				
Name and mailing address of the ISA/SE	Authorized officer			
Patent- och registreringsverket Box 5055	Solveig Gustavsson/ELY			
S-102 42 STOCKHOLM				

Solveig Gustavsson/ELY Telephone No. +46 8 782 25 00

Form PCT/ISA/237 (cover sheet) (January 2004)

Facsimile No. +46 8 667 72 88

International application No.

PCT/SE 2005/000013

Bo	Box No. I Basis of this opinion	
1.	which it was filed, unless otherwise indicated. This opinion has been established.	has been established on the basis of the international application in the language in ated under this item. on the basis of a translation from the original language into the following language, of a translation furnished for the purposes of international search (under Rules 12.3
2.	2. With regard to any nucleotide and/or am claimed invention, this opinion has been at type of material a sequence listing table(s) related to the sequence	
	b. format of material in written format in computer readable form	
3.	furnished subsequently to this In addition, in the case that more filed or furnished, the required a	application as filed. Itional application in computer readable form. So Authority for the purposes of search. So that one version or copy of a sequence listing and/or table relating thereto has been statements that the information in the subsequent or additional copies is identical to redoes not go beyond the application as filed, as appropriate, were furnished.
4.	4. Additional comments:	

International application No.

PCT/SE 2005/000013 Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability The question whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of: the entire international application claims Nos. 9-10 the said international application, or the said claims Nos. 9-10relate to the following subject matter which does not require an international preliminary examination (specify): See PCT Rule 67.1.(iv) .: Methods for treatment of the human or animal body by surgery or therapy, as well as diagnostic methods. the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify): are so inadequately supported The claims, or said claims Nos. by the description that no meaningful opinion could be formed. no international search report has been established for said claims Nos. the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that: has not been furnished the written form does not comply with the standard has not been furnished the computer readable form does not comply with the standard the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions. See Supplemental Box for further details.

International application No.

PCT/SE 2005/000013

Box No. V			3bis.1(a)(i) with regard to novelty, inventiv actions supporting such statement	e step or industrial
1. Stateme	ent			
Nov	elty (N)	Claims	1-8,11-14	YES
		Claims	<u></u>	NO
Inve	ntive step (IS)	Claims		YES
		Claims	1-8,11-14	NO.
Indu	strial applicability (IA)	Claims	1-8,11-14	YES
		Claims		NO

2. Citations and explanations:

- D1) WO 02094812 A1
- D2) WO 9828275 A1

The claims disclose diarylmethylidene piperidine derivatives that are used for treatment of pain, anxiety or functional gastrointestinal disorders.

Documents D1-D2 disclose structurally closely related compounds with the same activity as the claimed compounds.

Document D1 which is considered to represent the most relevant state of the art, discloses structurally closely related compounds. The subject-matter of claim 1 differs from D1 (see the claims) in that the aminogroup in that the aminogroup is in para-position instead of in meta-position on the phenyl-group.

The subject-matter of claims 1-9 and 14 is therefore novel (Article 33(2) PCT).

The problem to be solved by the present invention in the light of document D1 is the provision of alternative diphenylmethylidene piperidine derivatives useful for treatment of pain, anxiety or functional gastrointestinal disorders.

Document D2 show structurally related compounds, that are substituted in meta-position on the phenyl-group with an

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International application No.

PCT/SE 2005/000013

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: $Box\ V$

aminogroup and no substituent on the piperidine-nitrogen (see page 115). However, this document also show compounds without the aminogroup that are substituted on the piperidine-nitrogen with groups such as arylmethyl.

The applicant has not shown that the structural differences render the claimed compounds' unexpected effects in comparison with the known compounds'.

It is considered obvious to a person skilled in the art to modify structurally similar compounds to obtain the claimed compounds and come to the conclusion that they will have the same activity.

The processes for preparation, of claims 11-13, are generally known processes and these claims therefore lack inventive step, as do the intermediates of claims 14 that are obtained in these processes.

Consequently, claims 1-8 and 11-14 are considered to fulfil the requirements of novelty, but not that of inventive step.

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To: WDO'T BOT				
ASTRAZENECA				
Global Intellectual Property WRITTEN OPINION OF THE				
151 85 Södertälje INTERNATIONAL SEARCHING AUTHORIT	7			
Sweden (PCT Puls 42 his 1)				
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International application No.

PCT/SE 2005/000013

Box	p. I Basis of this opinion	
1.	th regard to the language, this opinion has been established on the basis of the international application in the language in ich it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).	,
	th regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the imed invention, this opinion has been established on the basis of: type of material a sequence listing table(s) related to the sequence listing	
;	in written format in computer readable form	
	contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.	
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has be filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.	en o
4.	ditional comments:	

International application No.

PCT/SE 2005/000013

Box No. II	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	on whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be vapplicable have not been examined in respect of:
	the entire international application
\boxtimes	claims Nos. 9-10
	the said international application, or the said claims Nos. 9-10 relate to the following subject matter which does not require an international preliminary examination (specify):
	PCT Rule 67.1.(iv).: Methods for treatment of the human inimal body by surgery or therapy, as well as diagnostic ods.
	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):
	·
_	·
	The claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.
	no international search report has been established for said claims Nos.
	the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
	the written form has not been furnished
	does not comply with the standard
	the computer readable form has not been furnished
	does not comply with the standard
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	See Supplemental Box for further details.

International application No.

PCT/SE 2005/000013

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty,	inventive step or industrial
	applicability; citations and explanations supporting such statement	

1.	Statement			
	Novelty (N)	Claims	1-8,11-14	YES
	•	Claims		ио
	Inventive step (IS)	Claims		YES
		Claims	1-8,11-14	NO.
	Industrial applicability (IA)	Claims	1-8,11-14	YES
		Claims		ио

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